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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/770,706	01/26/2001	Nadim Abdo	MS158524.1	6799
27195	7590 05/07/2003			
AMIN & TUROCY, LLP 24TH FLOOR, NATIONAL CITY CENTER 1900 EAST NINTH STREET			EXAMINER	
			WALLACE, SCOTT A	
CLEVELAND, OH 44114			ART UNIT	PAPER NUMBER
			2671	&
			DATE MAILED: 05/07/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/770,706	ABDO, NADIM				
Office Action Summary	Examiner	Art Unit				
	Scott Wallace	2671				
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR ITHE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica - If the period for reply specified above is less than thirty (30) day - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, b - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no event, however, may a replytion. s, a reply within the statutory minimum of thirty (3 / period will apply and will expire SIX (6) MONTH: y statute, cause the application to become ABAN	y be timely filed 30) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed o						
, <u> </u>	This action is non-final.	manageration on to the months in				
3) Since this application is in condition for closed in accordance with the practice of Disposition of Claims						
4)⊠ Claim(s) <u>1-21</u> is/are pending in the appl	ication.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5,8,9,11,12 and 15-19 and 21</u> is/are rejected.						
7) Claim(s) <u>6,7,10,13,14 and 20</u> is/are objected to.						
8) Claim(s) are subject to restriction	and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Ex	aminer.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)☐ All b)☐ Some * c)☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority doc	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the application from the Internatio * See the attached detailed Office action for 	nal Bureau (PCT Rule 17.2(a)).					
14)☐ Acknowledgment is made of a claim for do	omestic priority under 35 U.S.C. §	119(e) (to a provisional application).				
a) ☐ The translation of the foreign langua	• .					
Attachment(s)		-				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-93) Information Disclosure Statement(s) (PTO-1449) Paper	948) 5) Notice of Info	mmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)				

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 5, 8-9, 11-12, 18-19, 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Tada, U.S. Patent No. 5,736,991.
- 3. As per claims 1 and 11, Tada discloses a system for rendering an image of an object having a curved surface (column 3 lines 39-40), comprising: a determiner adapted to determine M number of attributes relating to rendering the image, M being an integer (column 3 lines 1-23); a first processor (input processor, fig 3) adapted to pre-compute N number of attributes relating to rendering the image, N being an integer less than or equal to M, and the N number of attributes being pre-computable (column 3 lines 1-23); and a second processor (deforming processor, fig 3) adapted to compute the M number of attributes (column 3 lines 1-23).
- 4. As per claims 5 and 12, Tada discloses wherein the determiner determines at least one of an ambient lighting component, a diffuse lighting component, a specular lighting component, an intensity, a pole vector, an equator vector, a latitude, a longitude, a color and a texture (column 9 lines 45-60).
- 5. As per claims 8 and 18, Tada discloses wherein the object is a lit sphere (fig 5).
- 6. As per claims 9 and 19, Tada discloses wherein the object is a textured sphere (fig 5).
- 7. As per claim 21, Tada discloses a computer readable medium having computer executable instructions for performing the method of claim 11 (column 1 lines 5-10).

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Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claim 2 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tada.
- 10. As per claims 2 and 15, Tada does not specifically disclose the N number of attributes having characteristics associated with the symmetrical nature of objects having a curved surface. However, Tada discloses a sphere as the curved surface which has inherent symmetry. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the associated symmetry because this would reduce the computation load.

- 11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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12. Claims 3-4 and 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tada in

view of Takaizawa et al., U.S. Patent No. 5,572,635.

13. As per claims 3 and 16, Tada does not disclose the M number of attributes including one or more

light sources. This is disclosed in Takaizawa et al in fig 5. It would have been obvious to one of ordinary

skill in the art at the time the invention was made to use one or more light sources as in Takaizawa with

the system of Tada because the object has to be illuminated from something to be seen.

14. As per claims 4 and 17, Tada does not disclose the M number of attributes including one or more

viewing positions. This is disclosed in Takaizawa in fig 13. It would have been obvious to one of ordinary

skill in the art at the time the invention was made to use one or more viewing positions as in Takaizawa

with the system of Tada because the viewing is determined by the position of camera viewing the object,

therefore is always at least one viewing position.

Allowable Subject Matter

15. Claims 6-7, 10, 13-14, 20 are objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the base claim and

any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Scott Wallace whose telephone number is 703-605-5163.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Mark Zimmerman, can be reached at 703-305-9798.

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Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

MARK ZIMMERMAN
SUPERVISORY PATENT EXAMPLES

TECHNOLOGY CENTER 2600